

Fig. 1a

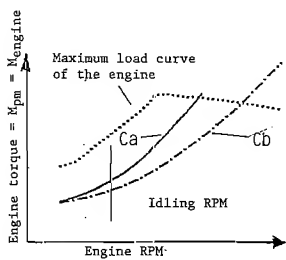
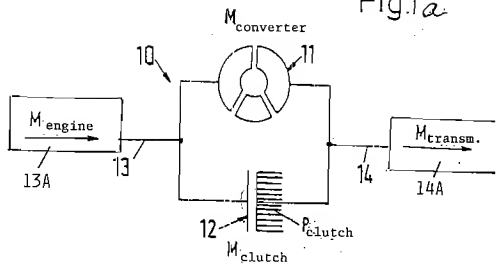


Fig. 1b

Losses when vehicle  
at a standstill

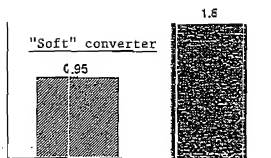


Fig. 1c

"Hard" converter

Losses in output

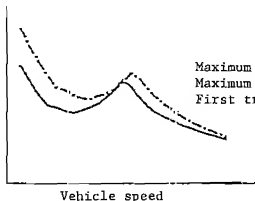


Fig. 1d

Maximum load  
Maximum slope  
First transmission drive ratio

--- "Soft" converter  
— Standard converter

Pulling force

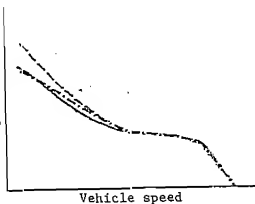
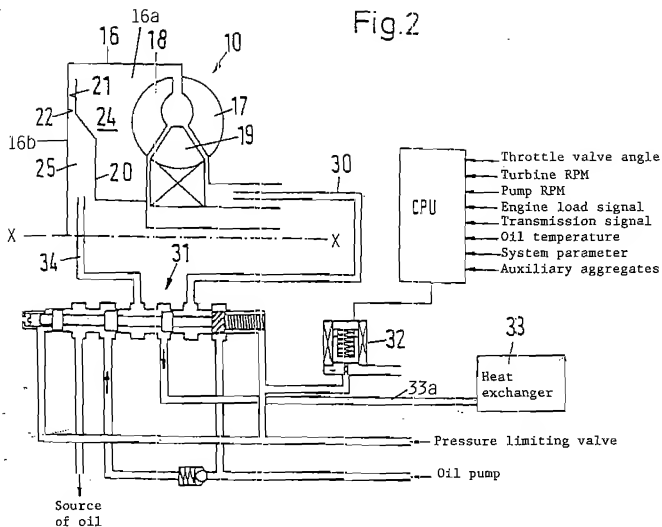


Fig. 1e

— Standard converter  
--- "Soft" converter  
- . - "Soft" converter with higher conversion

Fig.2



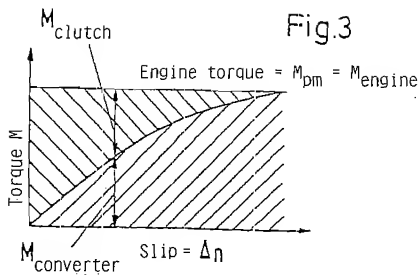
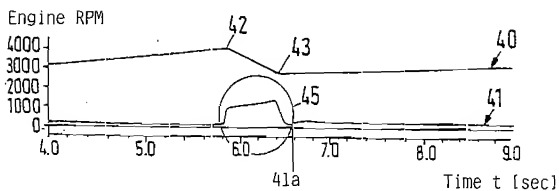


Fig.4



Output torque Nm

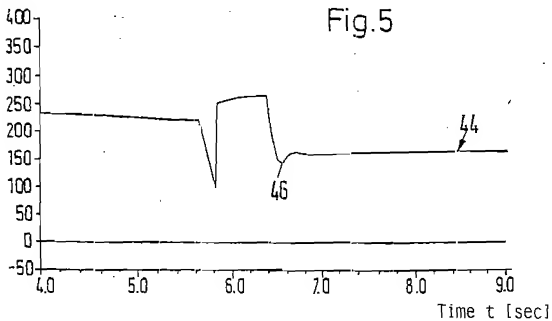


Fig.6

PRIOR ART

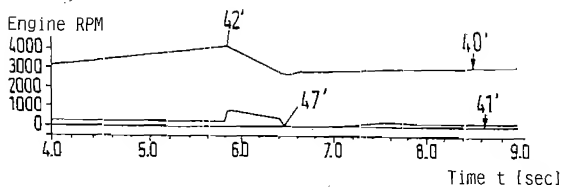
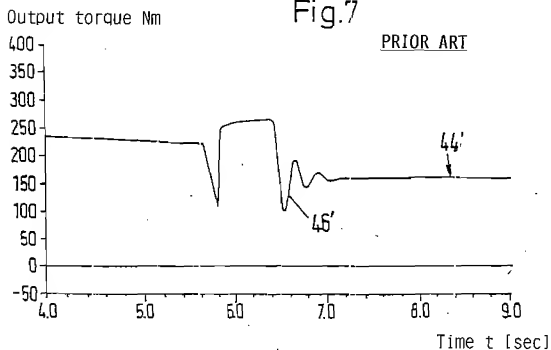


Fig.7

PRIOR ART



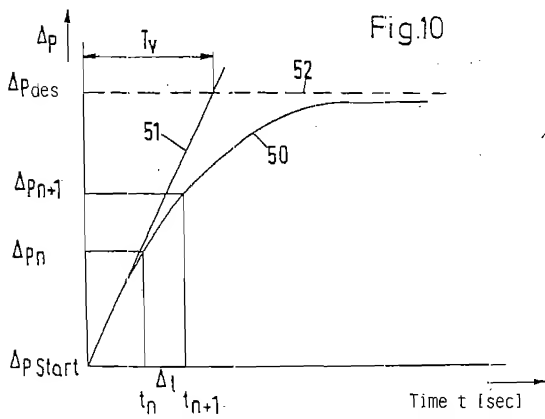
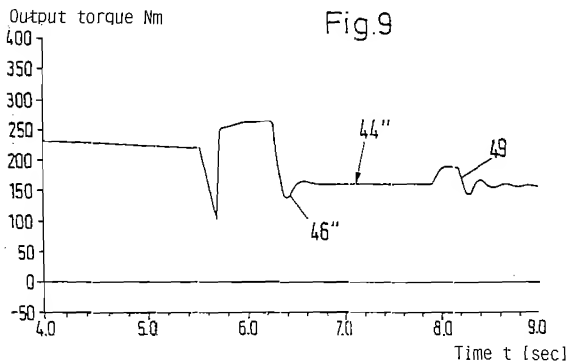
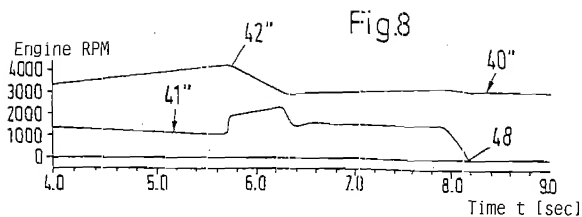


Fig. 11a

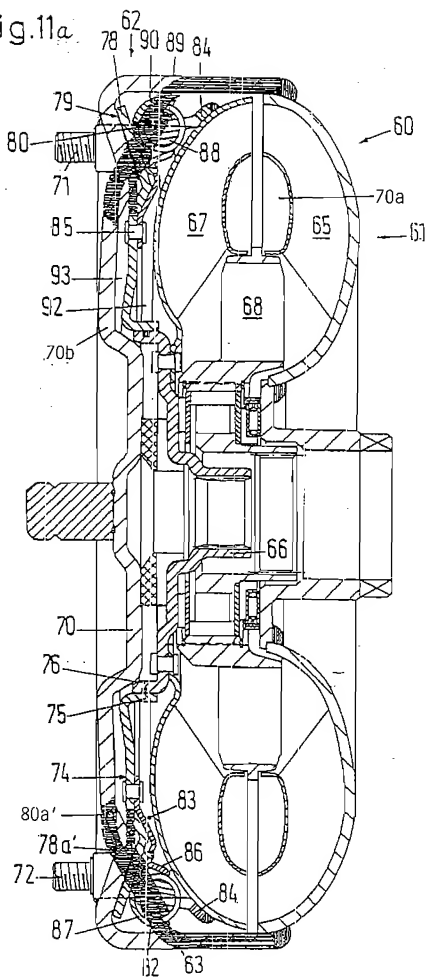


Fig. 11b

PRIOR ART

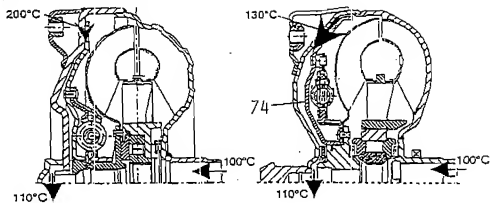


Fig. 11c

Fig. 11d

PRIOR ART

Maximum pressure  
per unit area:  
100%

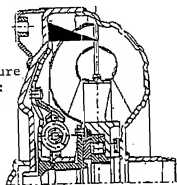


Fig. 11e

Maximum pressure  
per unit area:  
25%

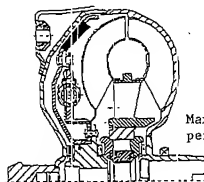


Fig.12

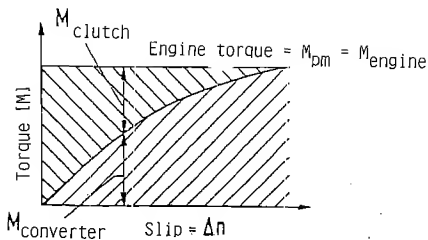


Fig.13

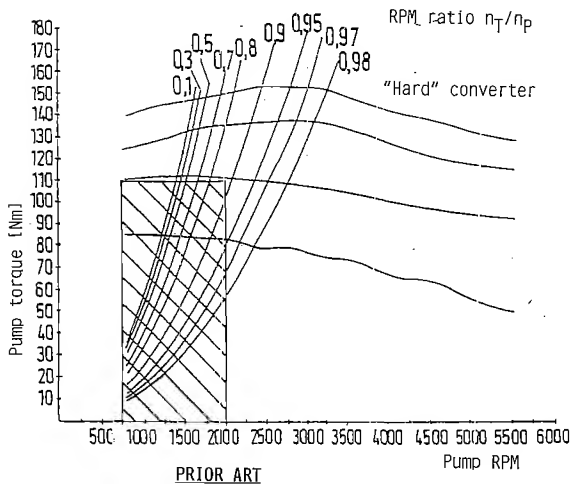


Fig.14

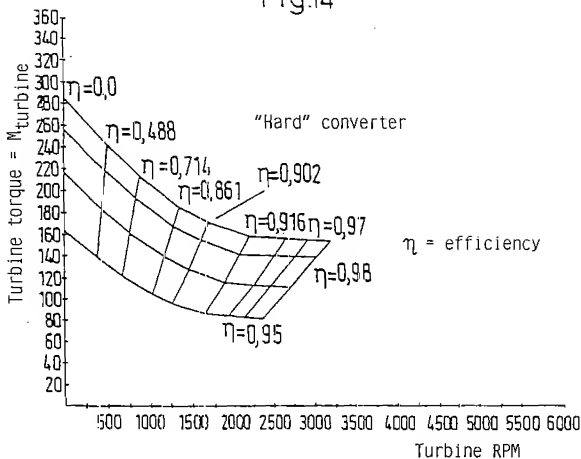


Fig.15

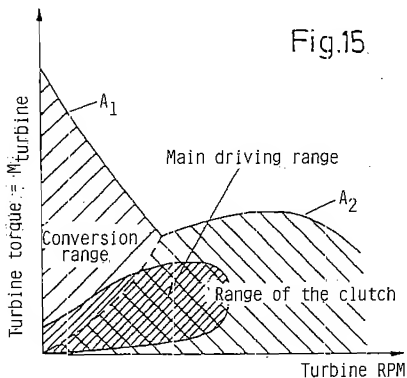


Fig.16

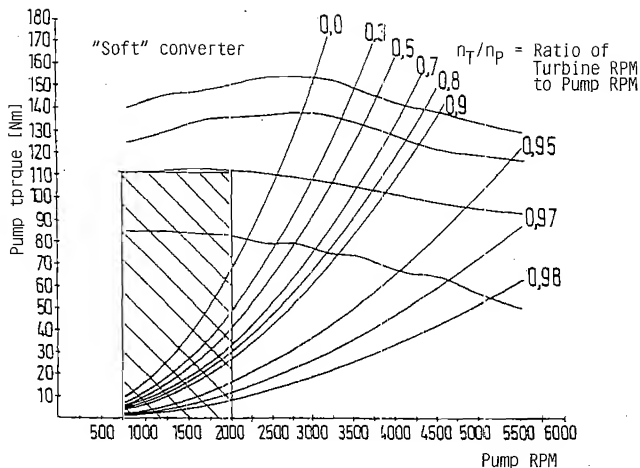


Fig.17

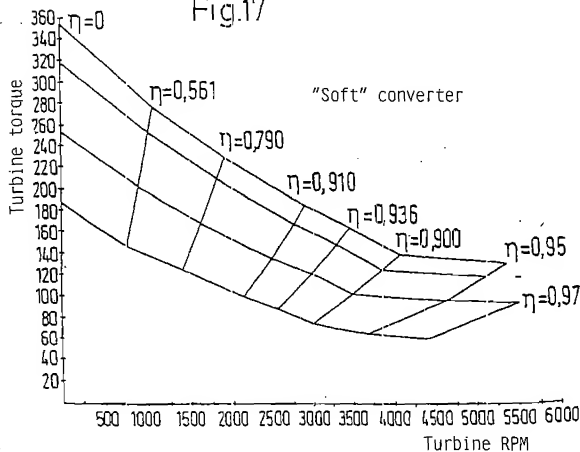


Fig.18

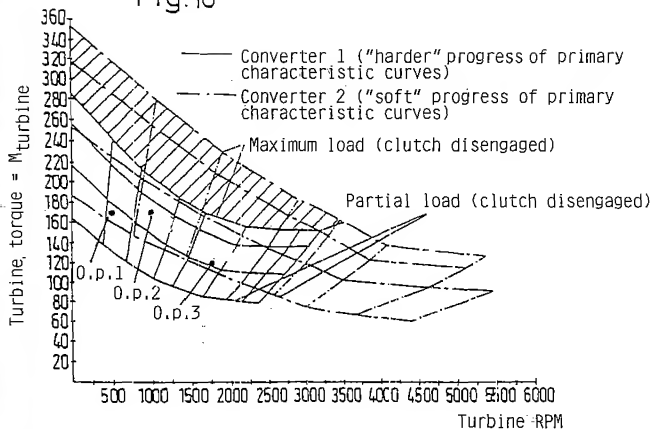
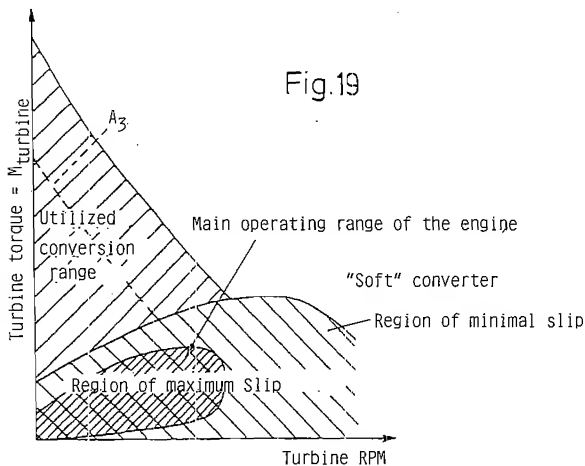


Fig.19



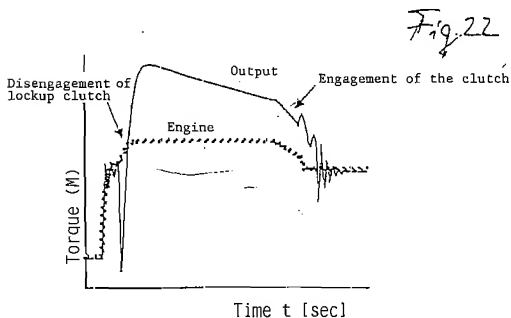
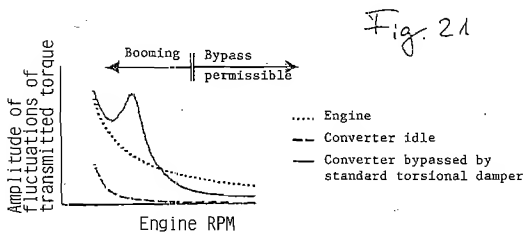
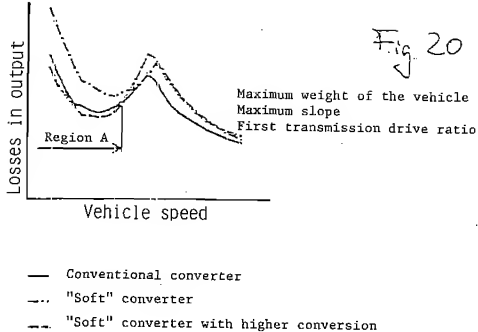


Fig. 23

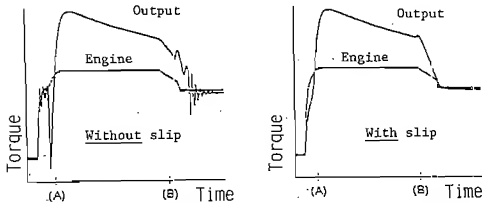
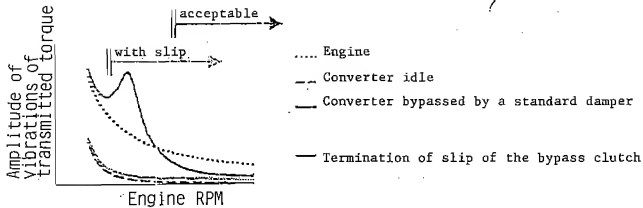


Fig. 24

(A) Disengagement of the clutch

(B) Engagement of the clutch

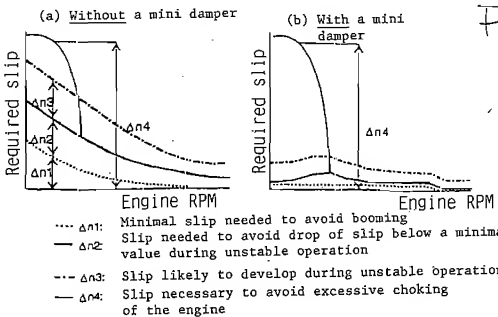
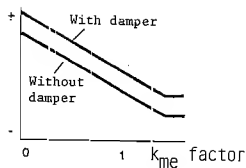


Fig. 25

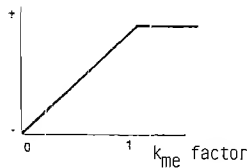


Fig. 27

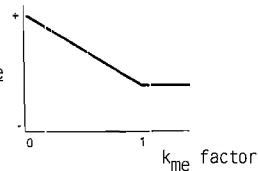
1. Acoustics



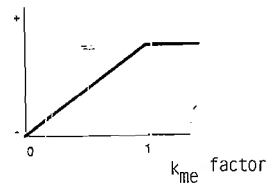
2. Thermal stressing



3. Pulling force



4. Consumption



5. Reaction to changes of load

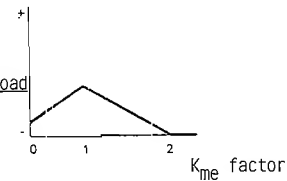


Fig-28

Engine RPM, throttle, consumption, injection time

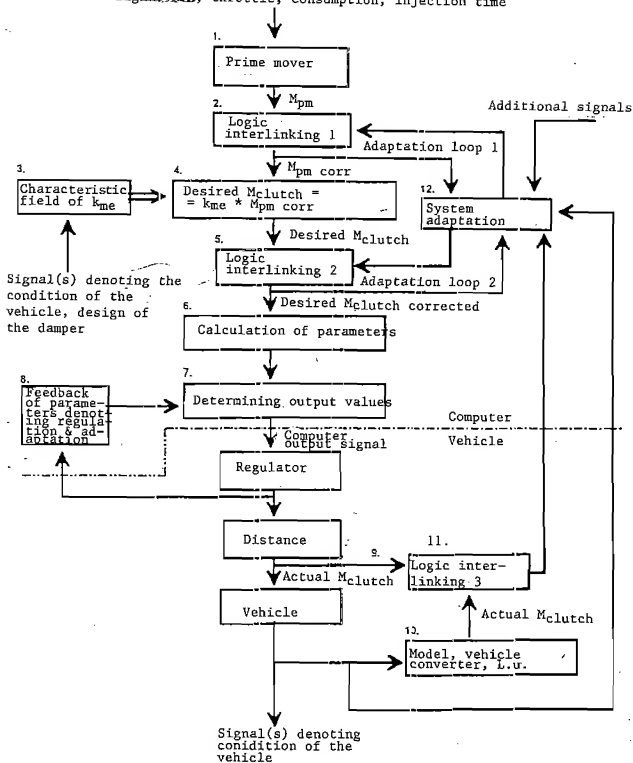
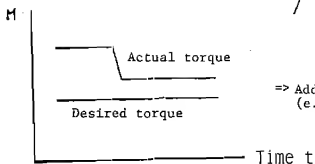


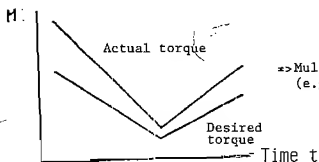
Fig. 29

Example 1:



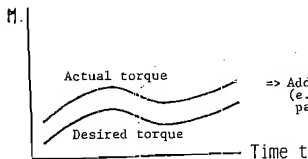
=> Additive share engine  
(e.g., auxiliary aggregate(s))

Example 2:



=> Multiplicative share clutch  
(e.g., friction coefficient)

Example 3:



=> Additive share clutch  
(e.g., deviation of controlling parameter)

Fig. 30

Engine RPM, throttle, consumption injection time

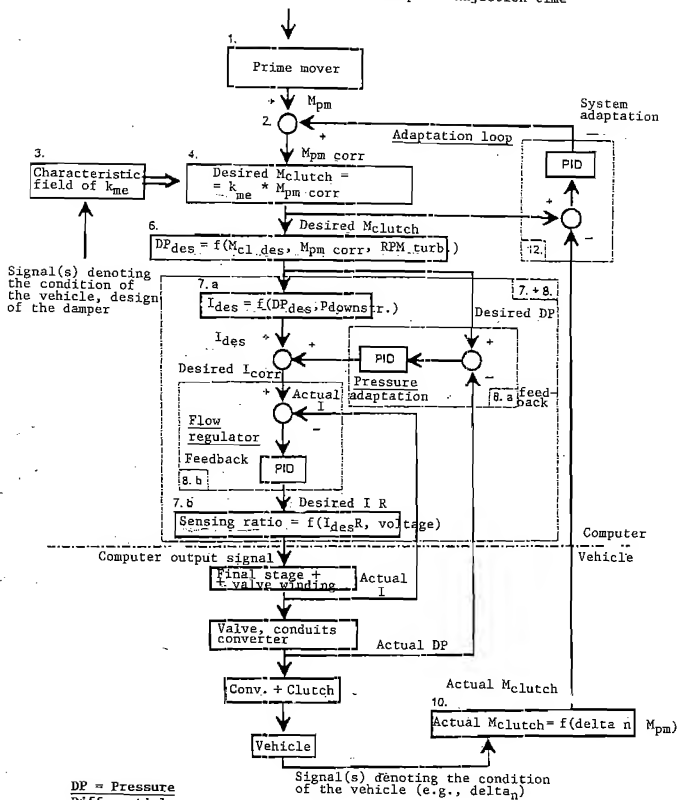


Fig. 34

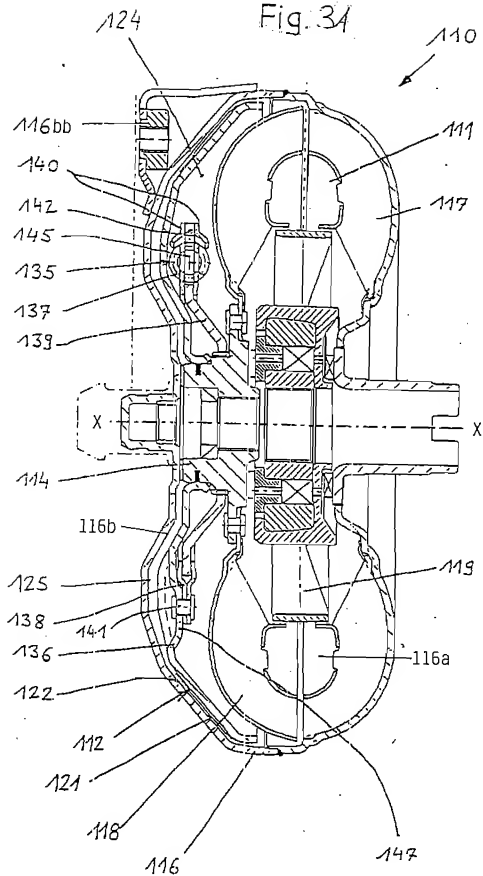


Fig 32

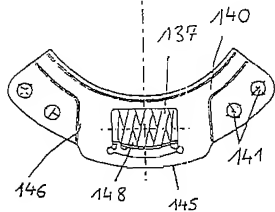
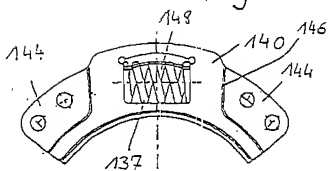


Fig. 33

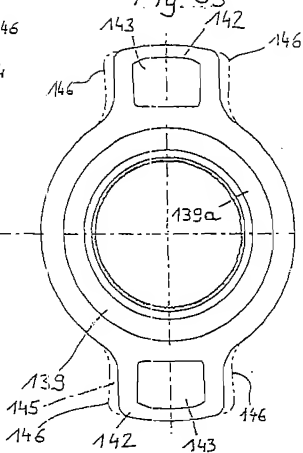


Fig. 35

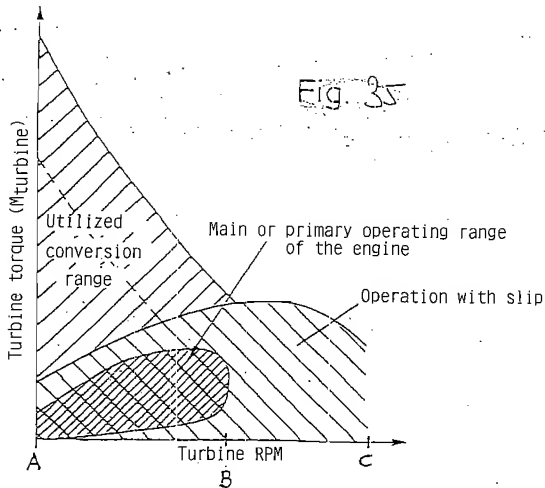
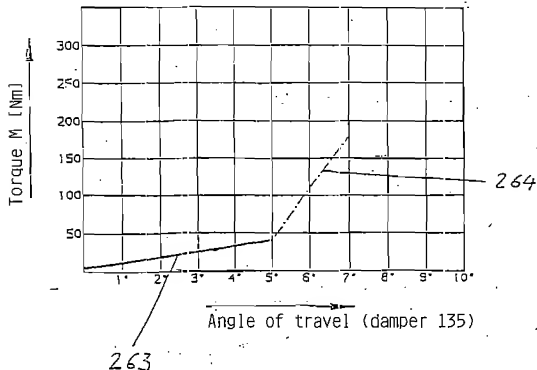


Fig. 34



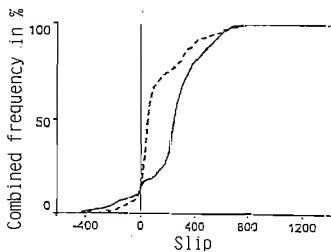


Fig. 36

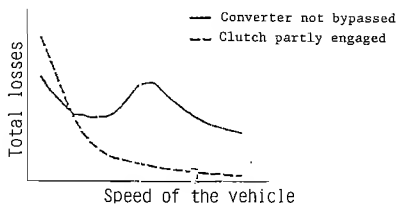


Fig. 37

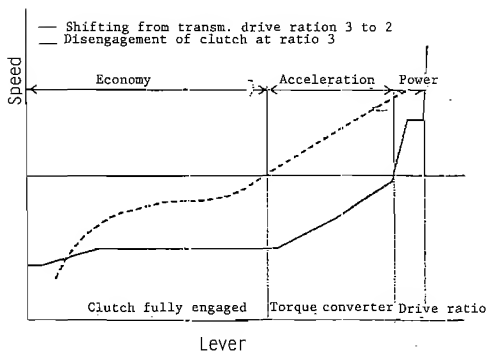


Fig. 38

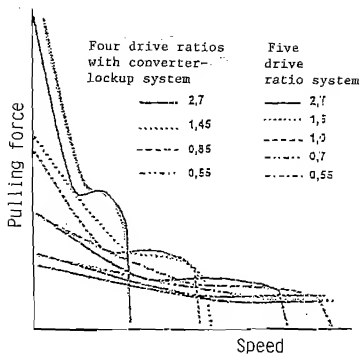


Fig. 39